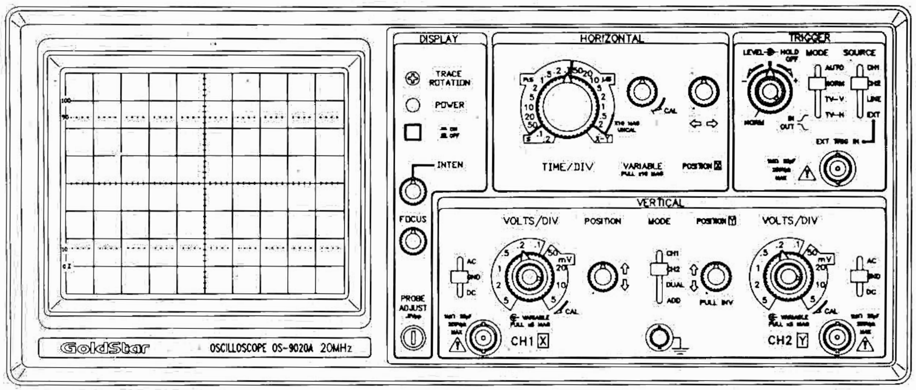
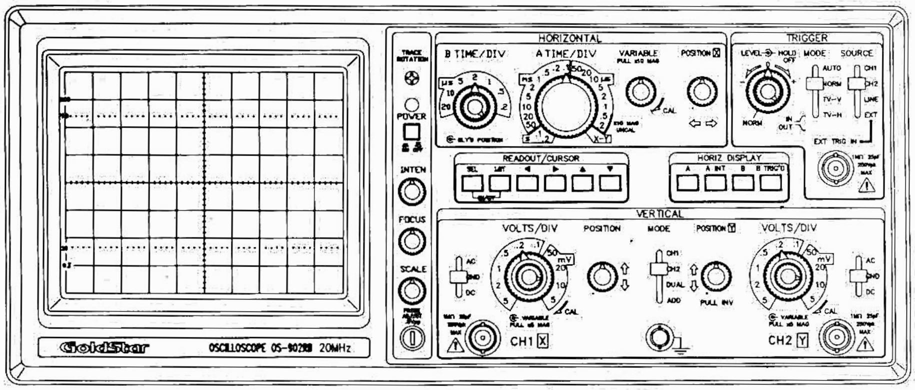
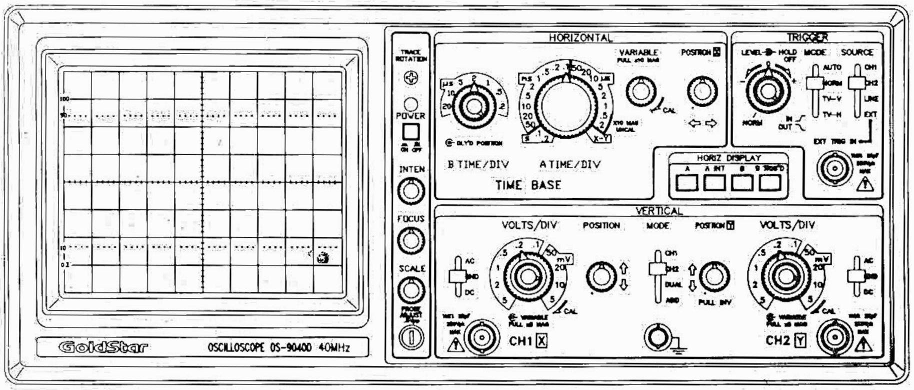


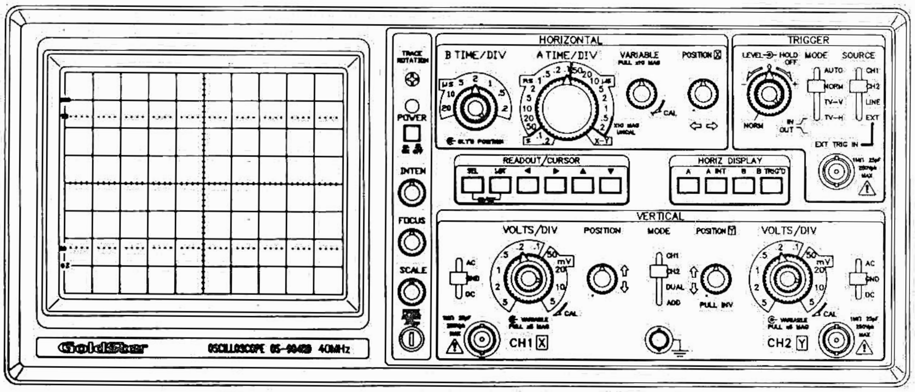
OS-9020A



OS-902RB



OS-9040D

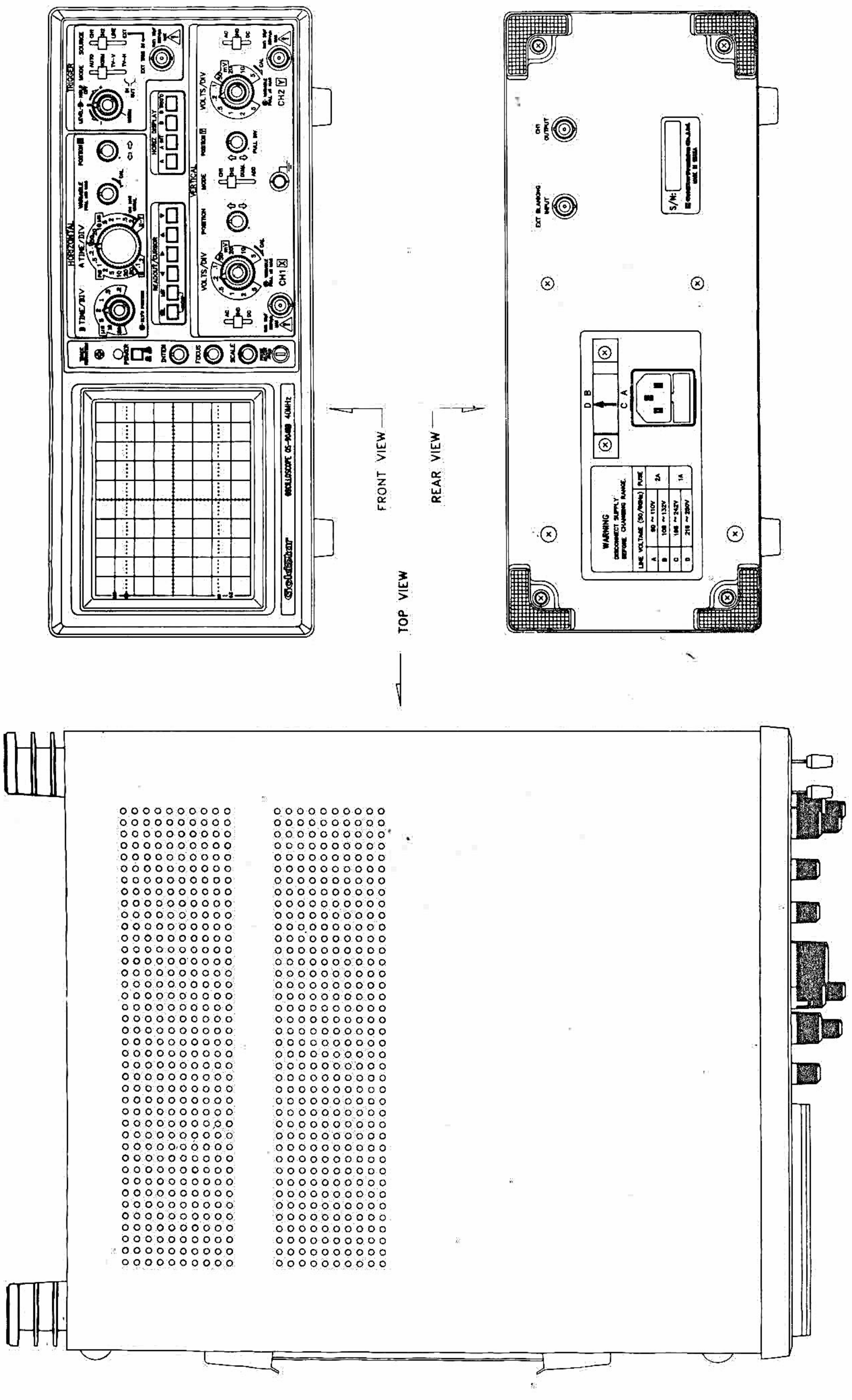


OS-904RD

Firg.2-2. FRONT VIEWS OF OS-9000SRS

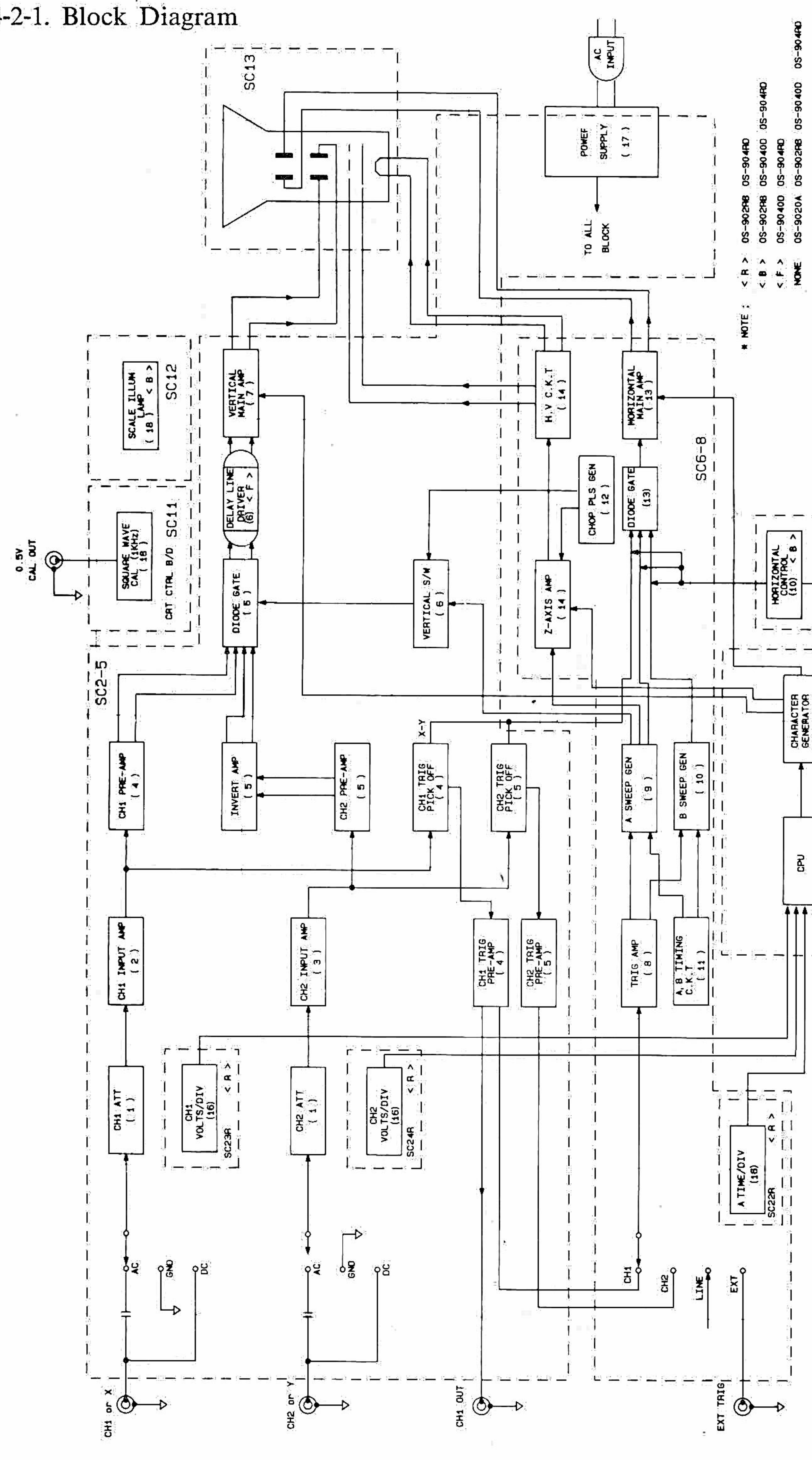
4. DIAGRAMS

4-1. EXTERNAL VIEWS

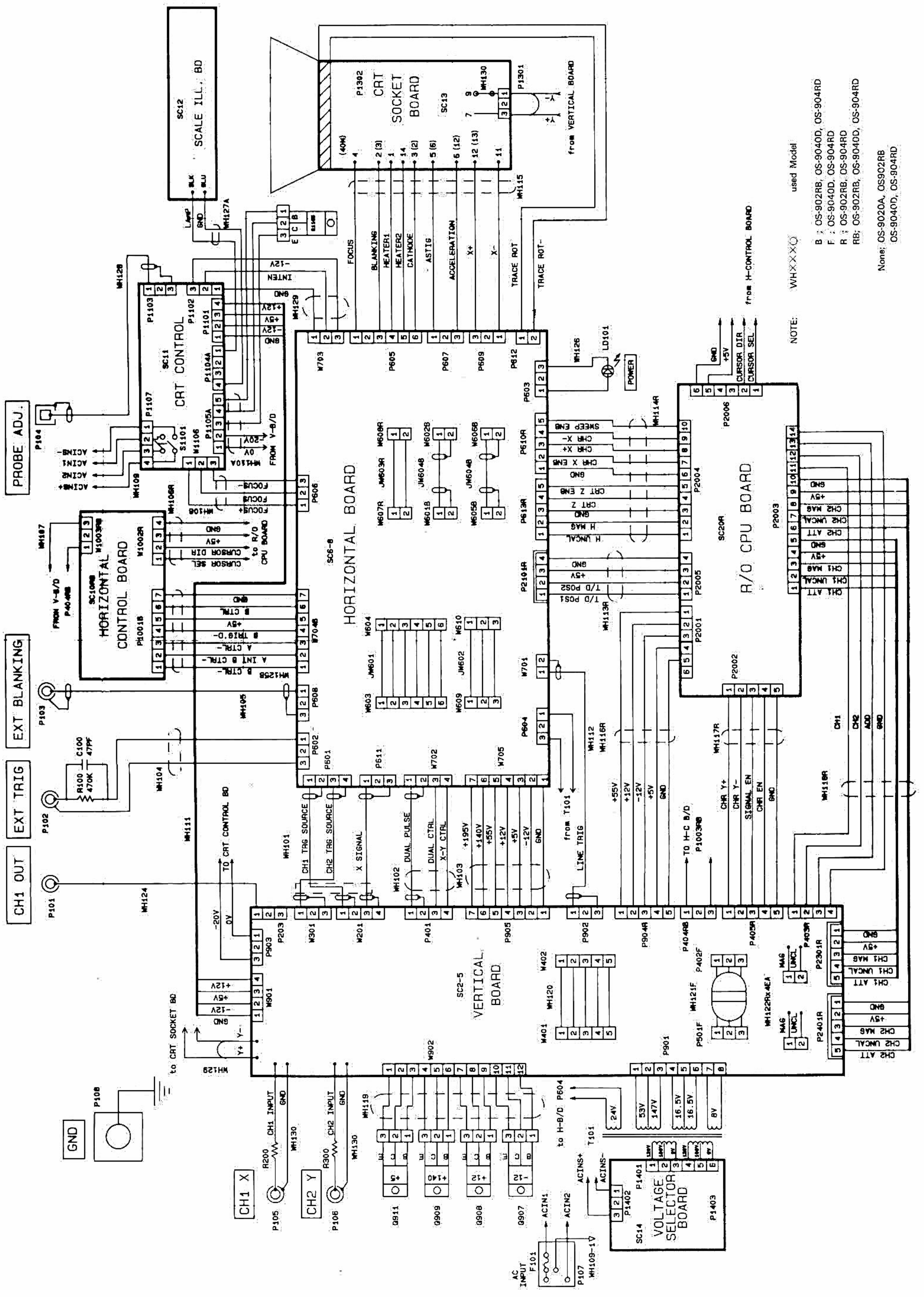


4-2. SCHEMATIC DIAGRAMS

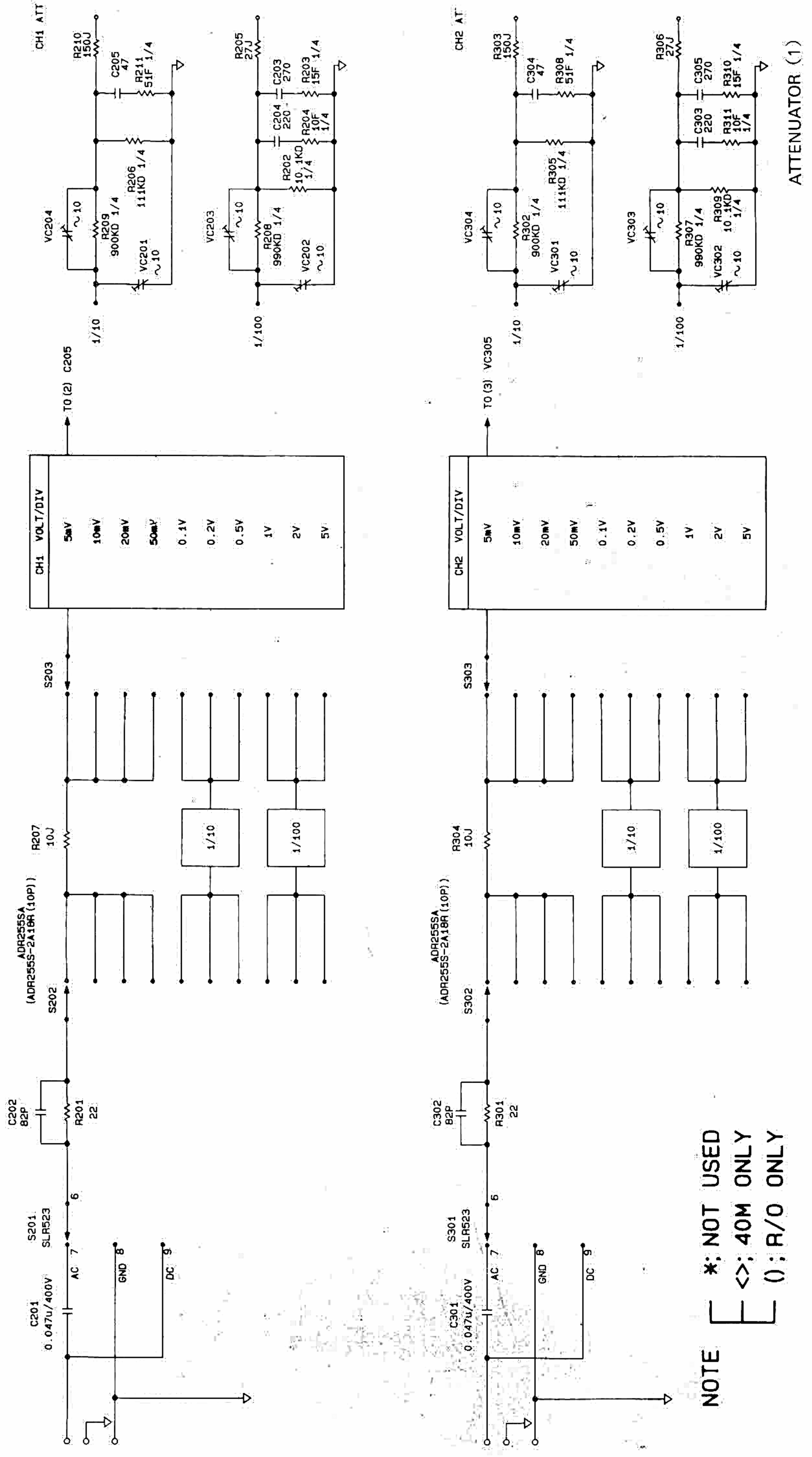
4-2-1. Block Diagram



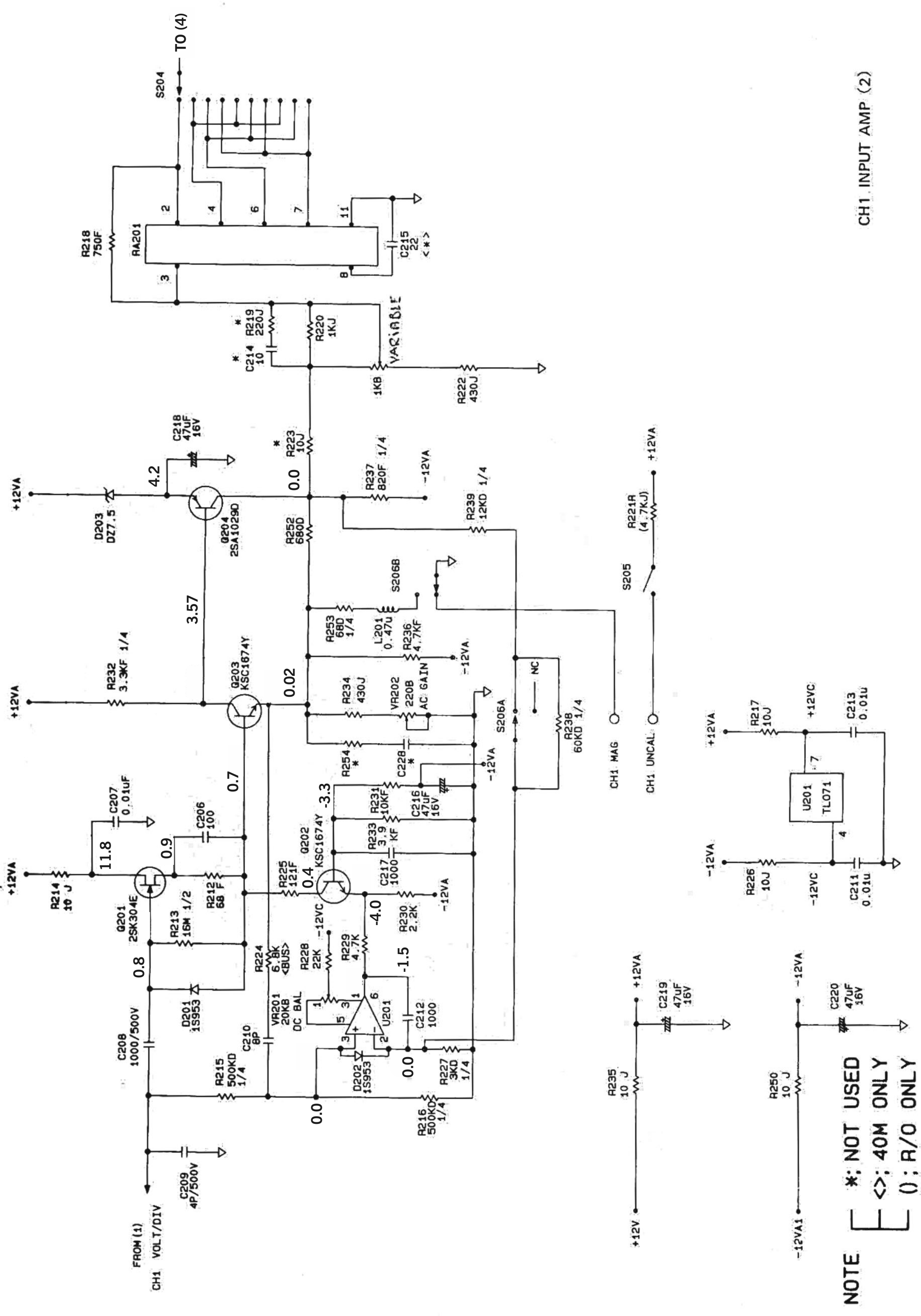
4-2-2. Wiring Diagram



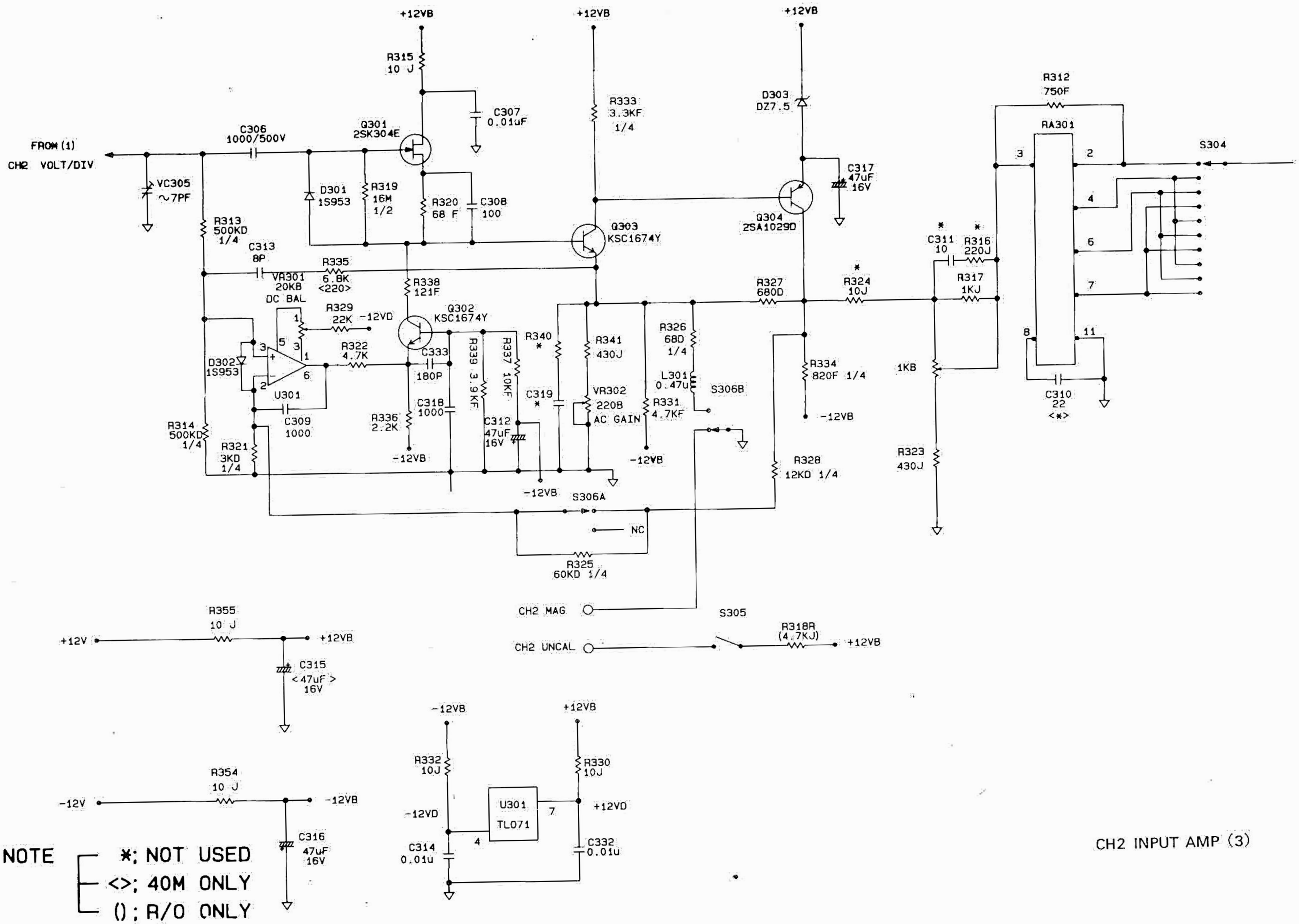
4-2-3. Ciraiut Diagrams



CH1 INPUT AMP (2)

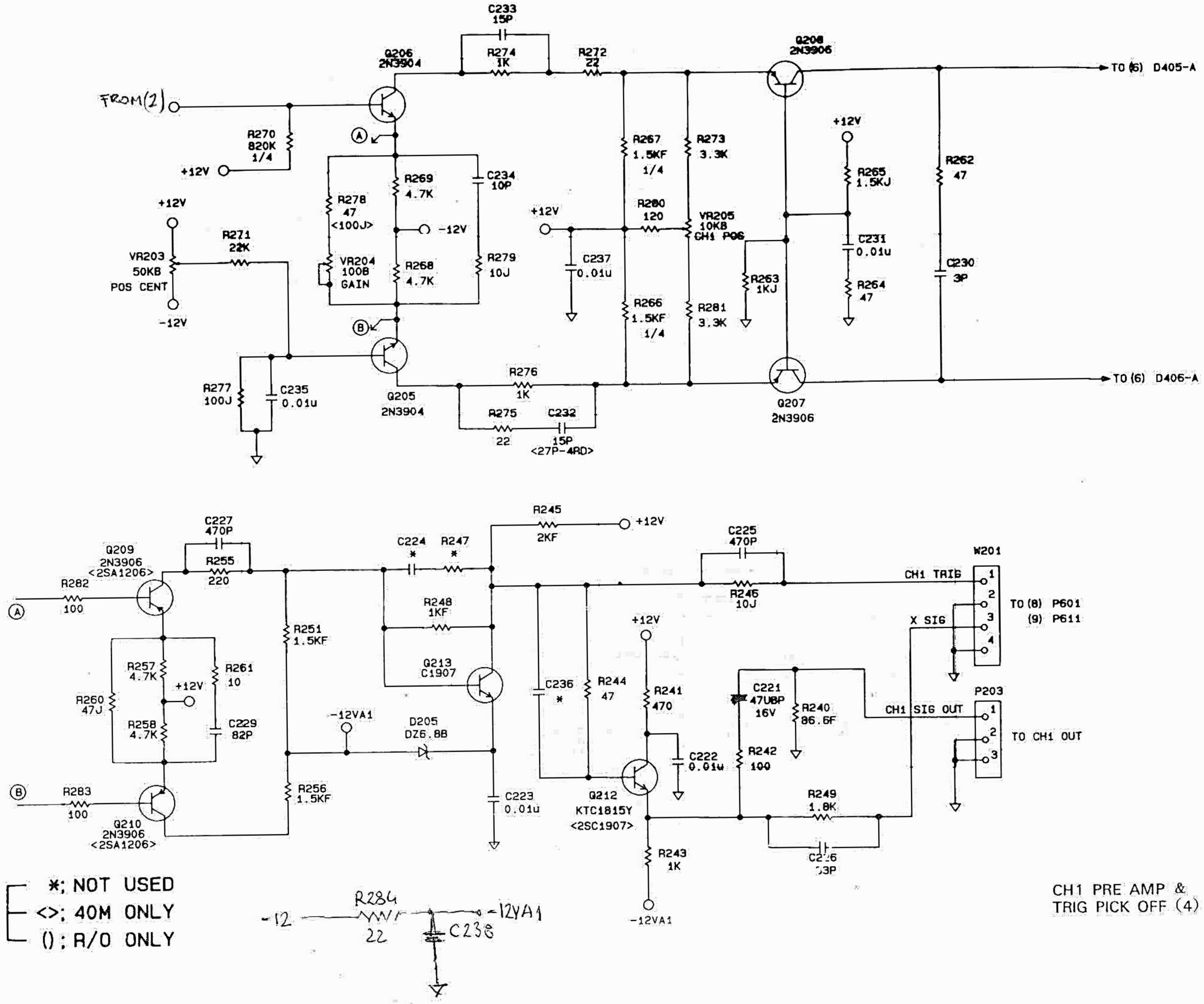


NOTE
*; NOT USED
<>; 40M ONLY
(); R/O ONLY



NOTE
- *; NOT USED
- <>; 40M ONLY
- (); R/O ONLY

CH2 INPUT AMP (3)



CH1 PRE AMP &
TRIG PICK OFF (4)

NOTE
- *; NOT USED
- <>; 40M ONLY
- (); R/O ONLY

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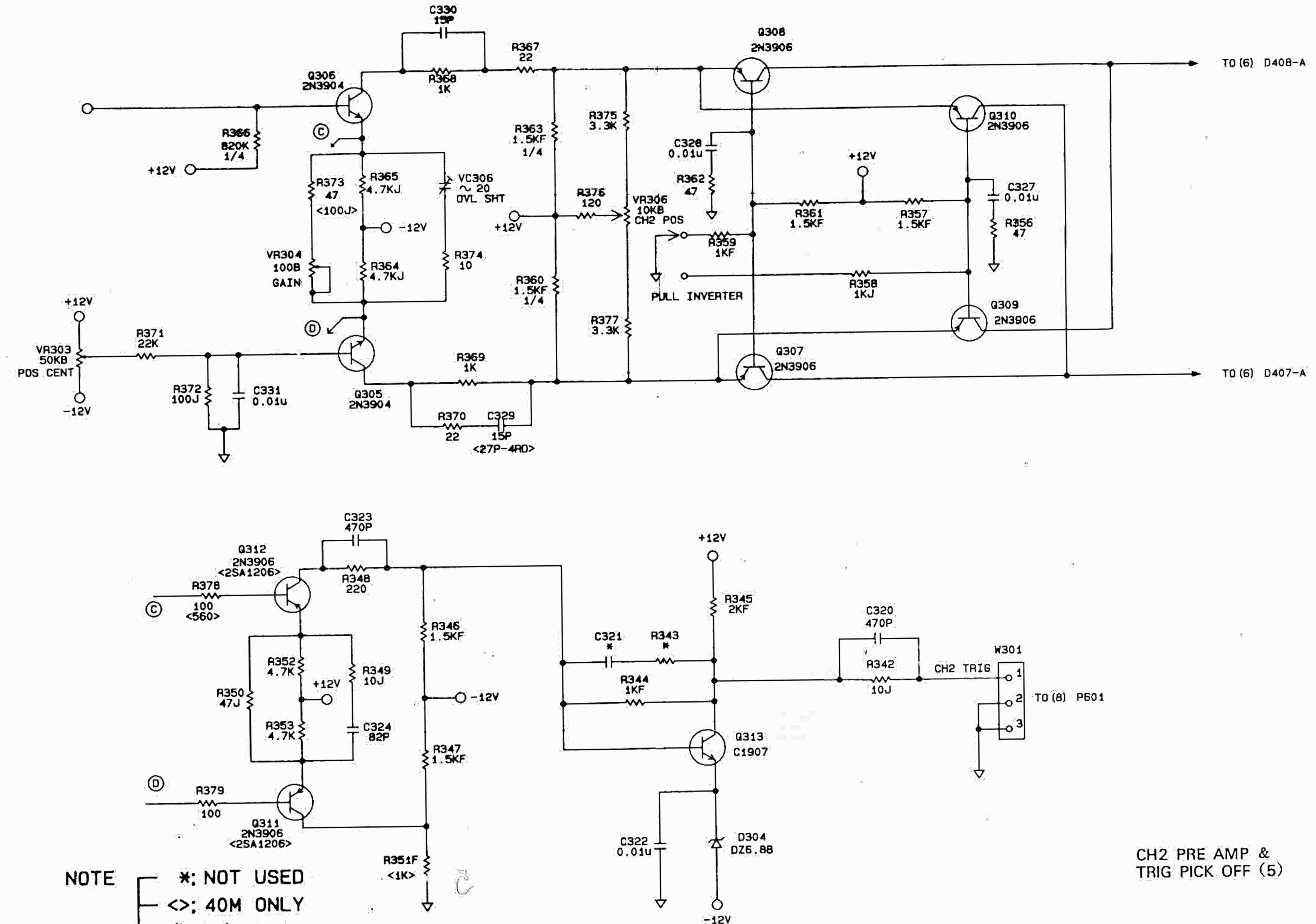
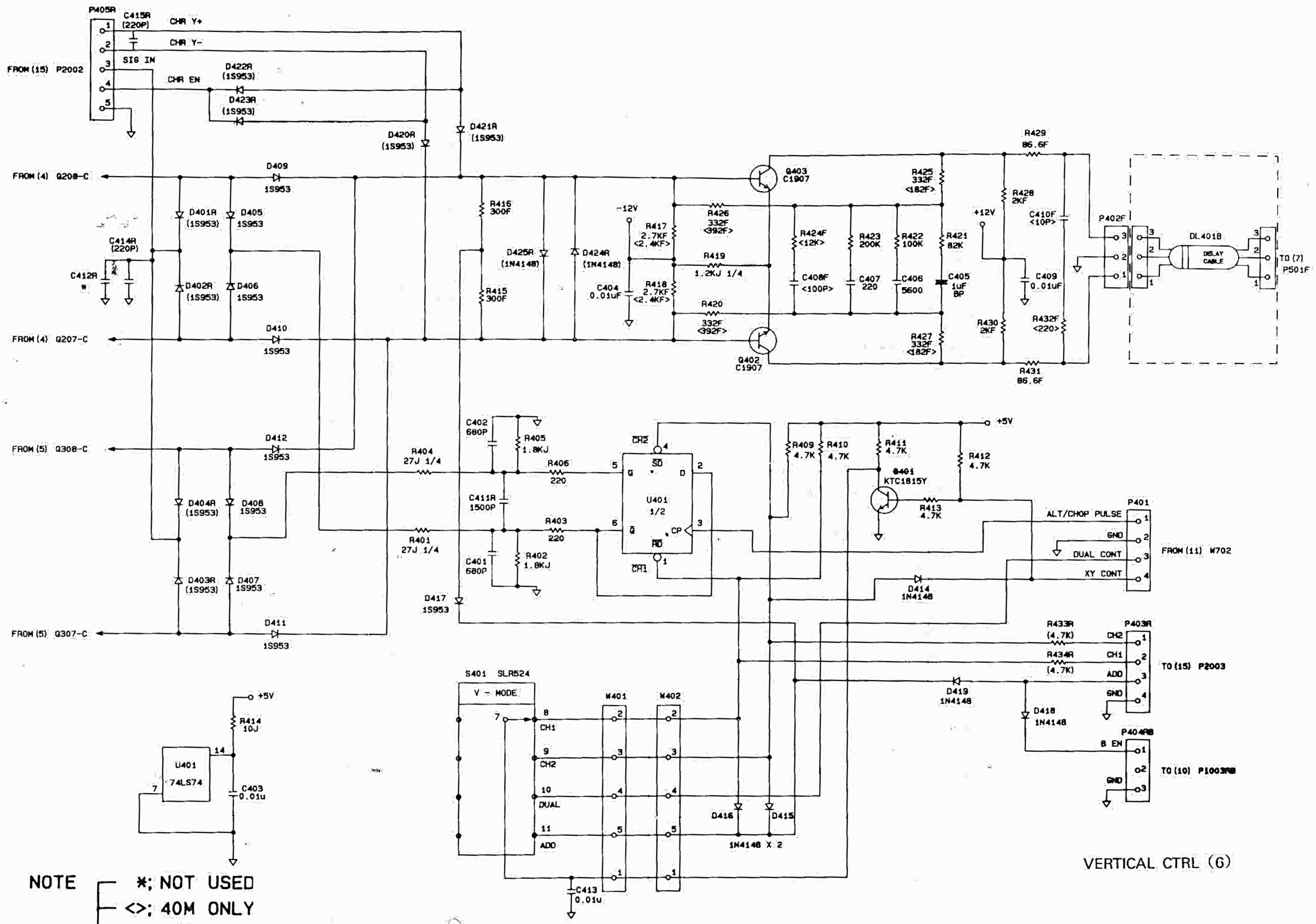


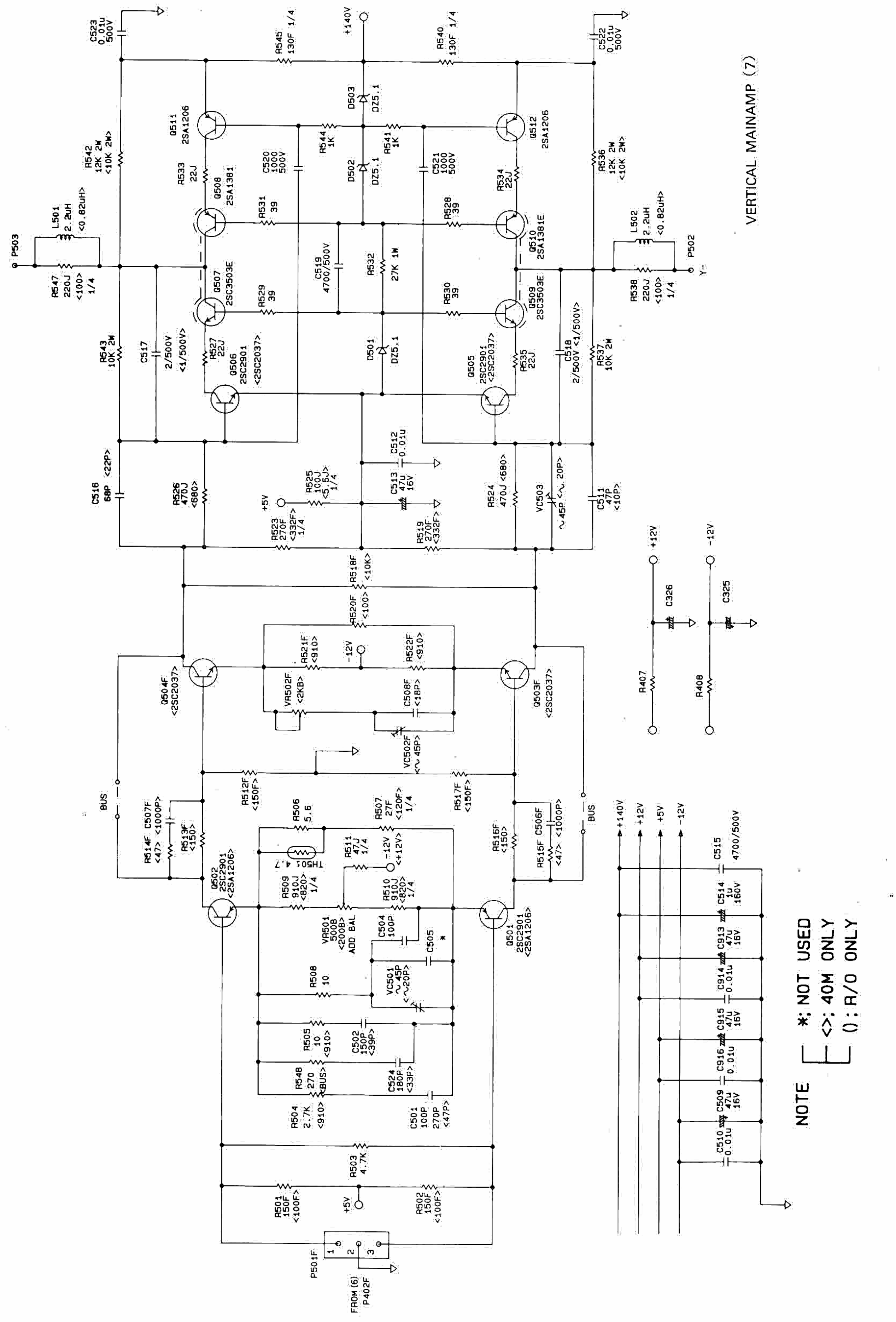
NOTE
- *: NOT USED
- <>: 40M ONLY
- (): R/O ONLY

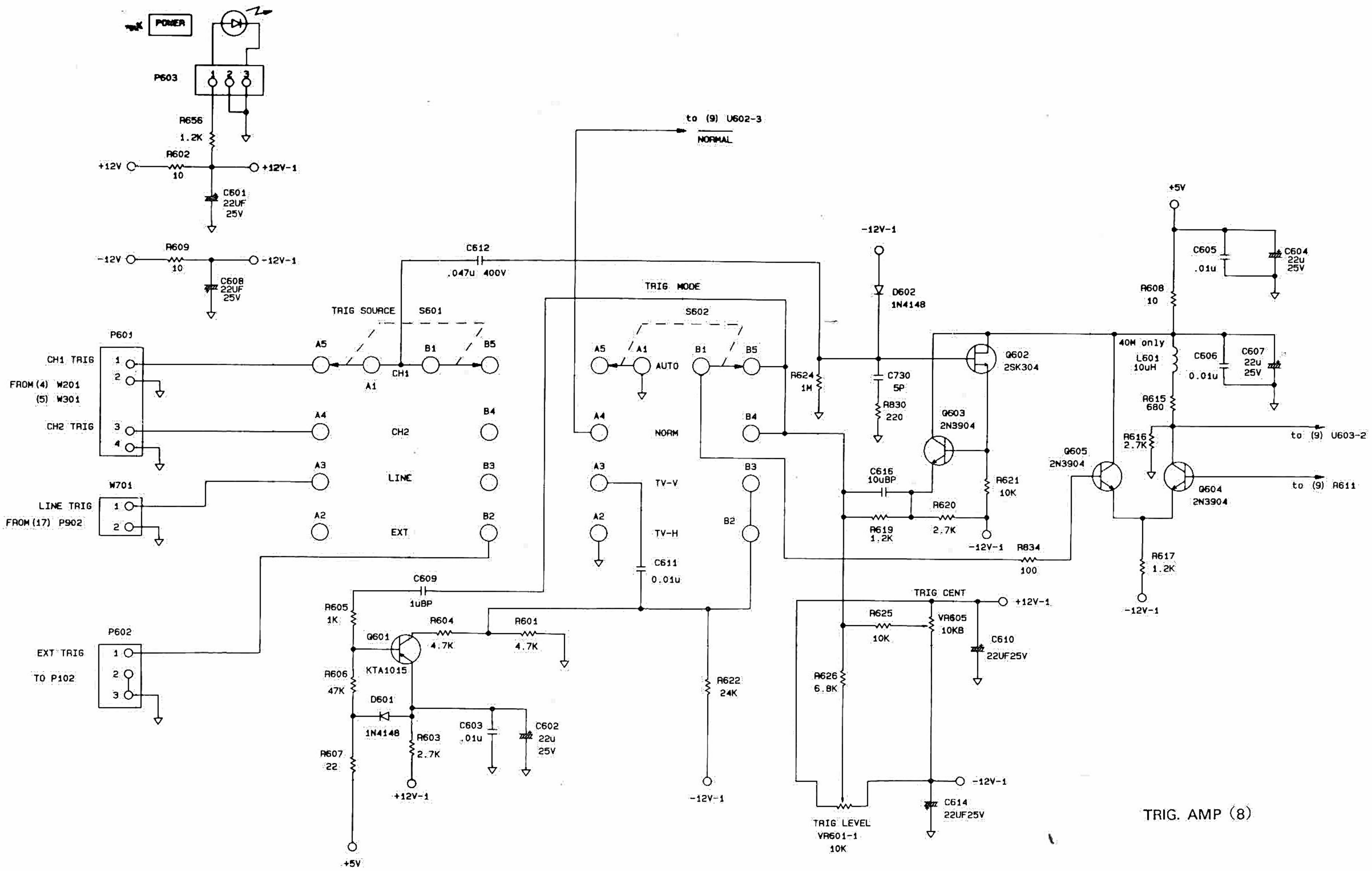
CH2 PRE AMP &
TRIG PICK OFF (5)



NOTE
*; NOT USED
<>; 40M ONLY
(); R/O ONLY

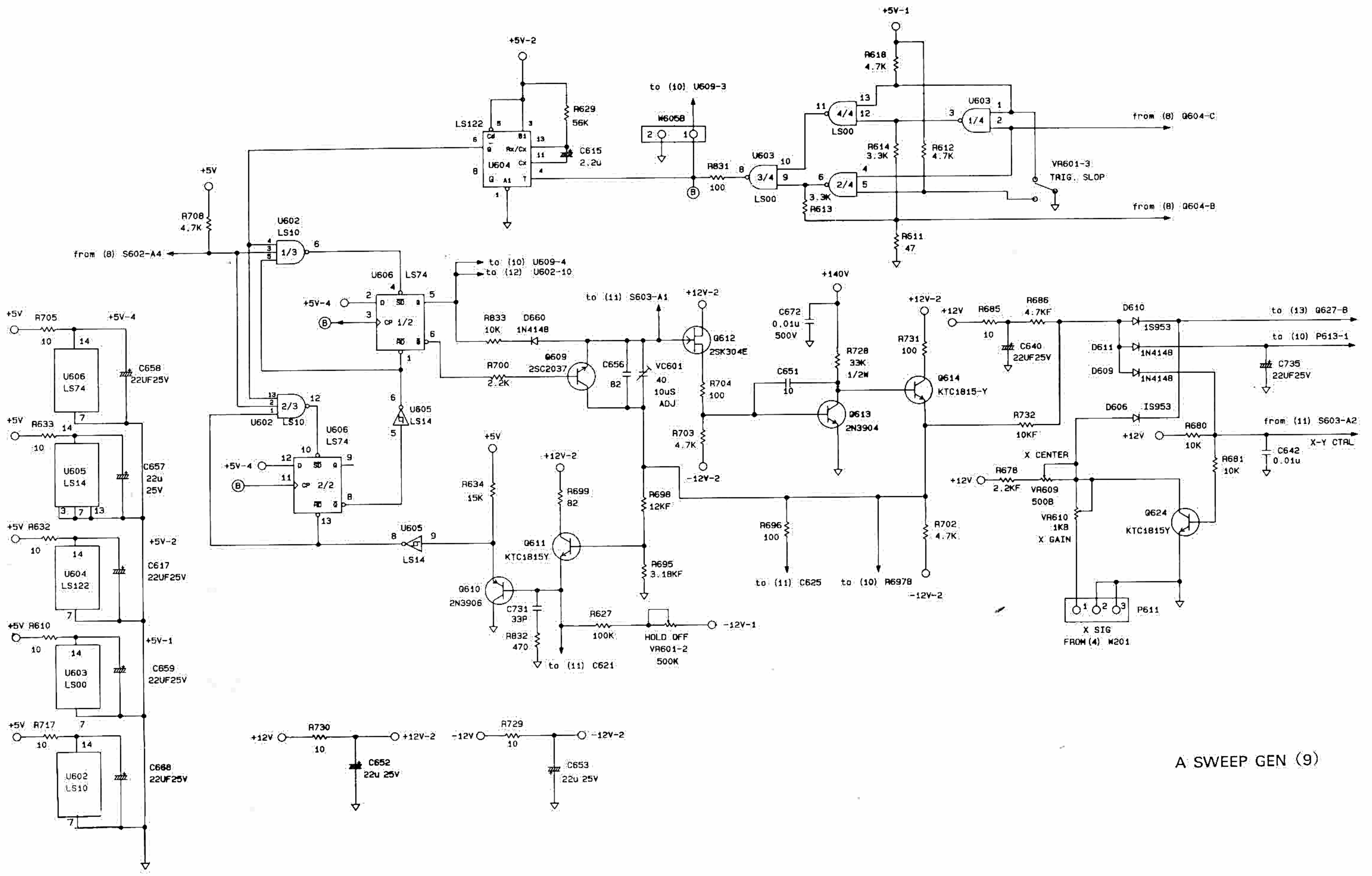
GoldStar



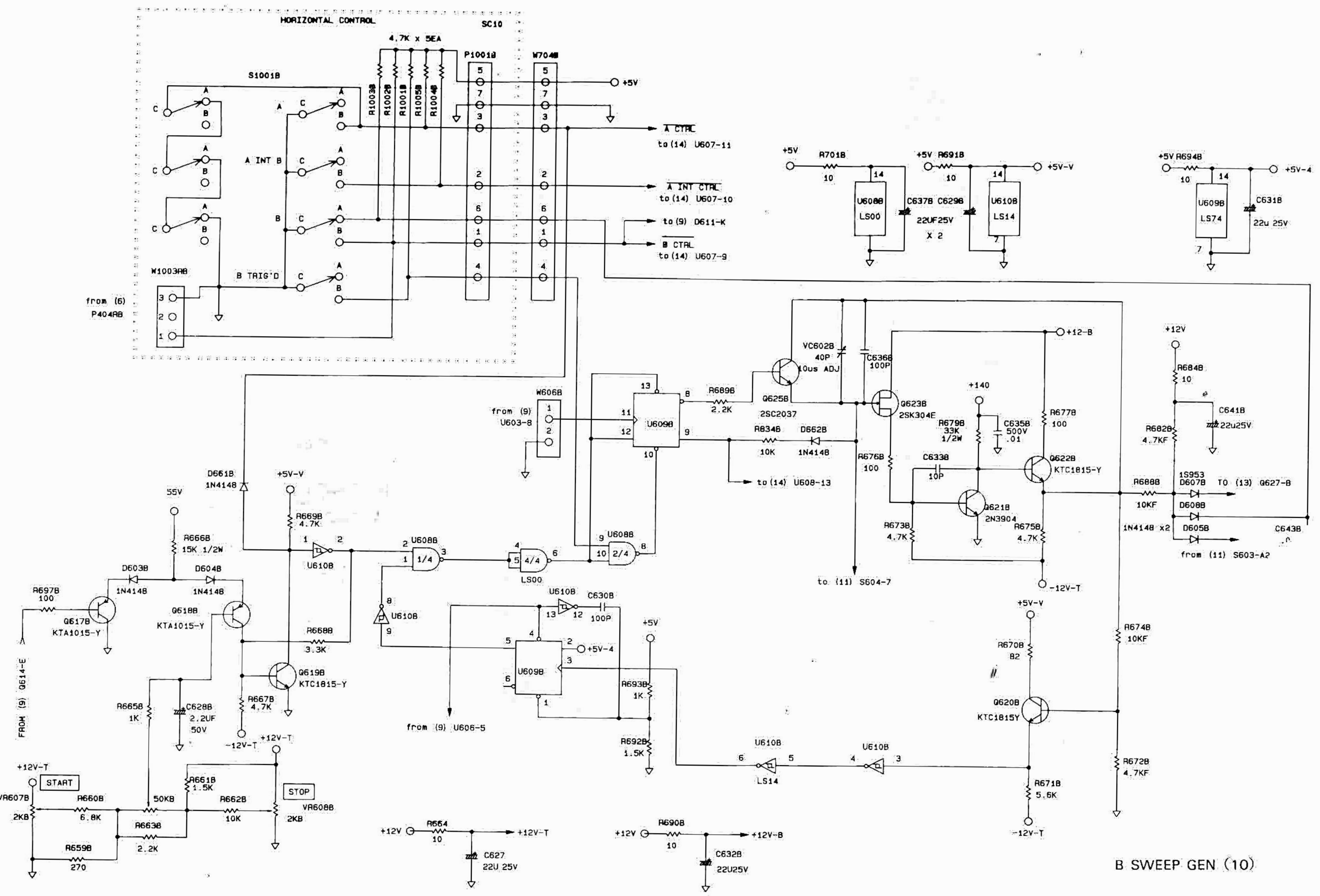

POWER
P603
R656 1.2K
R602 10
+12V
+12V-1
C601 22UF 25V
R609 10
-12V
-12V-1
C608 22UF 25V
P601
CH1 TRIG
FROM (4) W201
(5) W301
CH2 TRIG
W701
LINE TRIG
FROM (17) P902
P602
EXT TRIG
TO P102
C612 .047u 400V
TRIG SOURCE
S601
CH1
CH2
LINE
EXT
to (9) U602-3
NORMAL
TRIG MODE
S602
AUTO
NORM
TV-V
TV-H
C611 0.01u
C609 1uBP
R605 1K
Q601 KTA1015
R604 4.7K
R601 4.7K
R606 47K
D601 1N4148
R603 2.7K
C603 .01u
C602 22u 25V
R607 22
+5V
R622 24K
R624 1M
D602 1N4148
C730 5P
R830 220
Q602 2SK304
Q603 2N3904
C616 10uBP
R619 1.2K
R620 2.7K
R621 10K
R834 100
TRIG CENT
R625 10K
VR605 10KB
C610 22UF25V
R626 6.8K
C614 22UF25V
TRIG LEVEL
VR601-1 10K
R608 10
C605 .01u
C604 22u 25V
40M only
L601 10uH
C606 0.01u
C607 22u 25V
R615 680
R616 2.7K
Q605 2N3904
Q604 2N3904
to (9) U603-2
to (9) R611
R617 1.2K

TRIG. AMP (8)

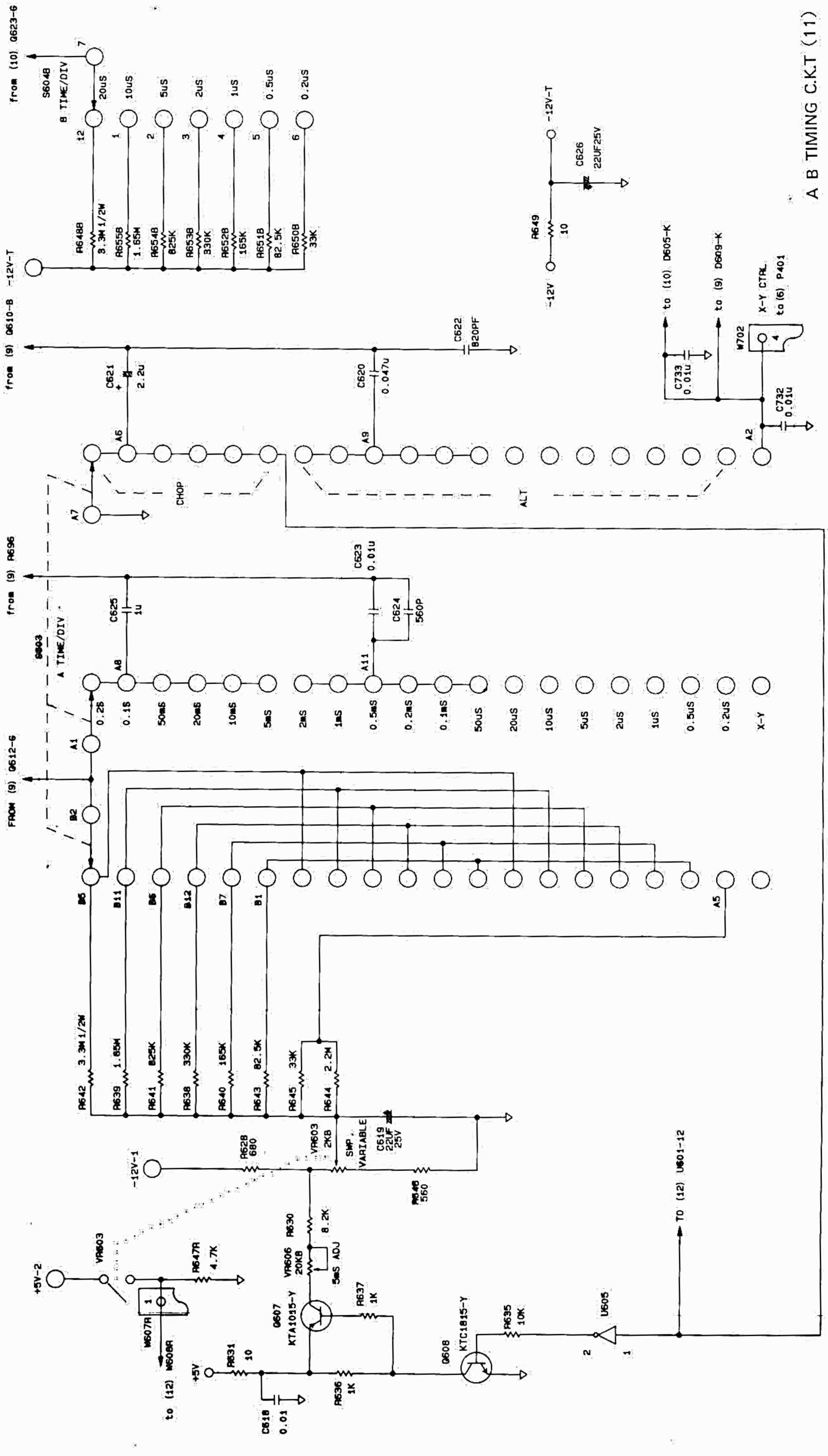
GoldStar



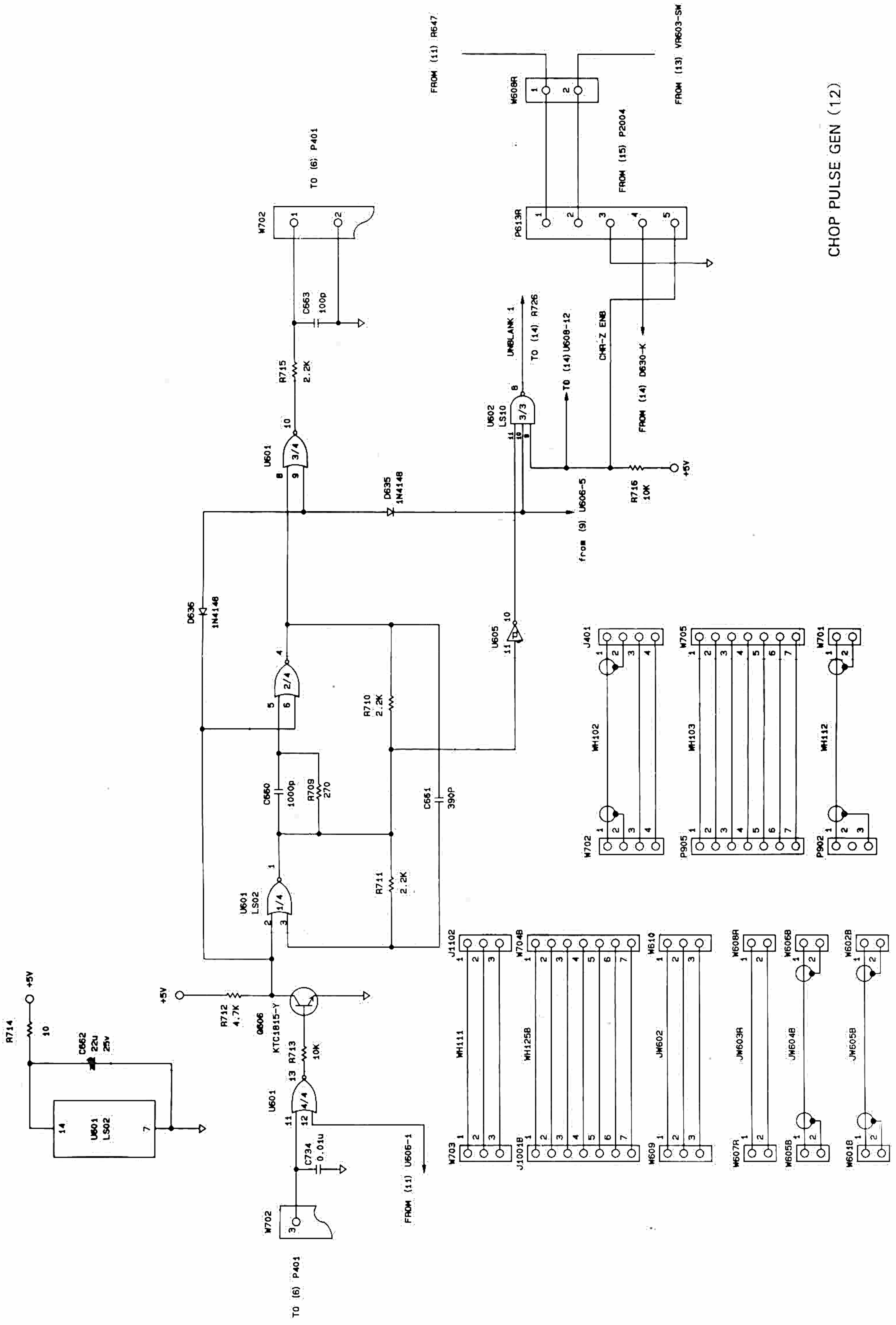
A SWEEP GEN (9)



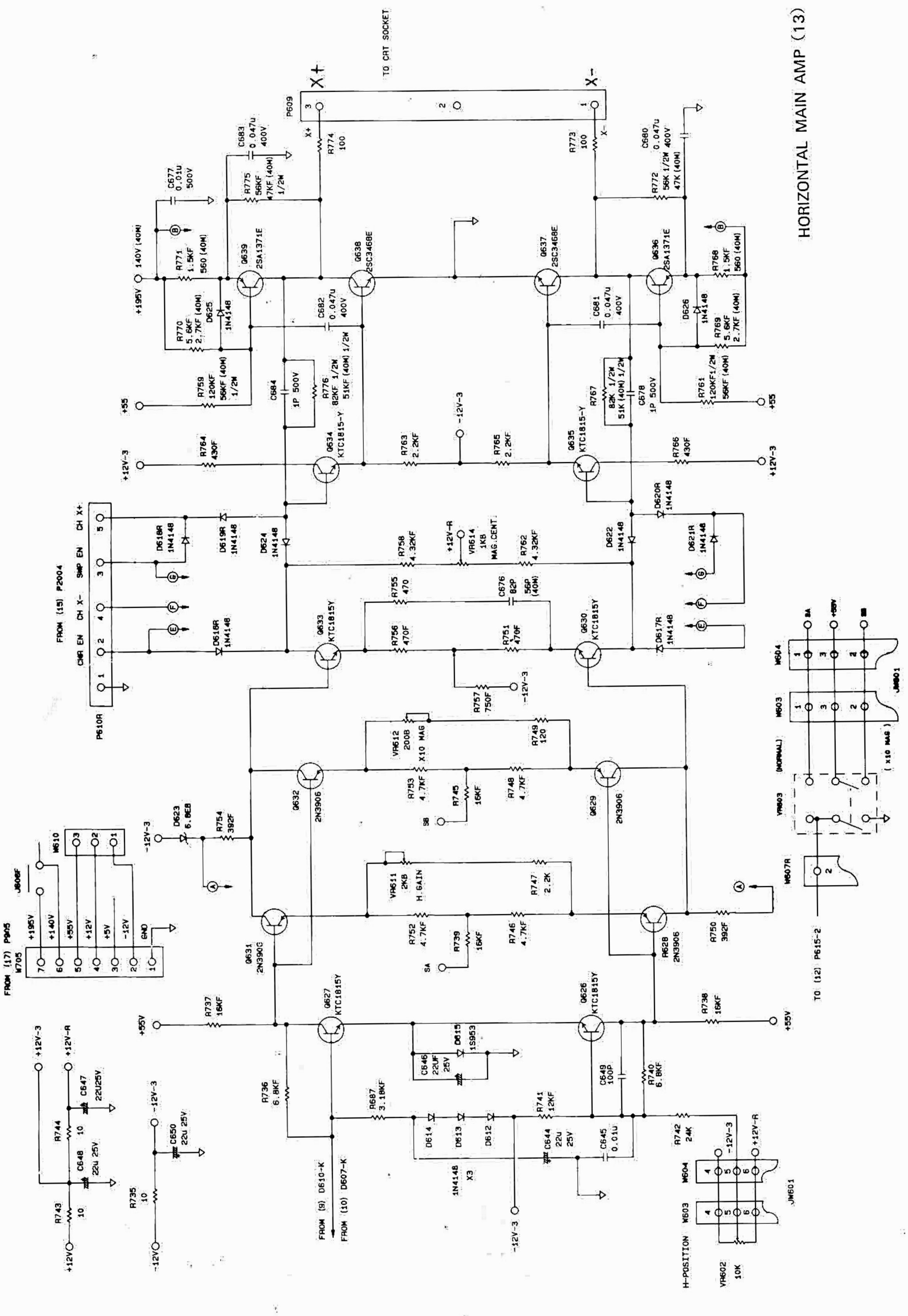
B SWEEP GEN (10)

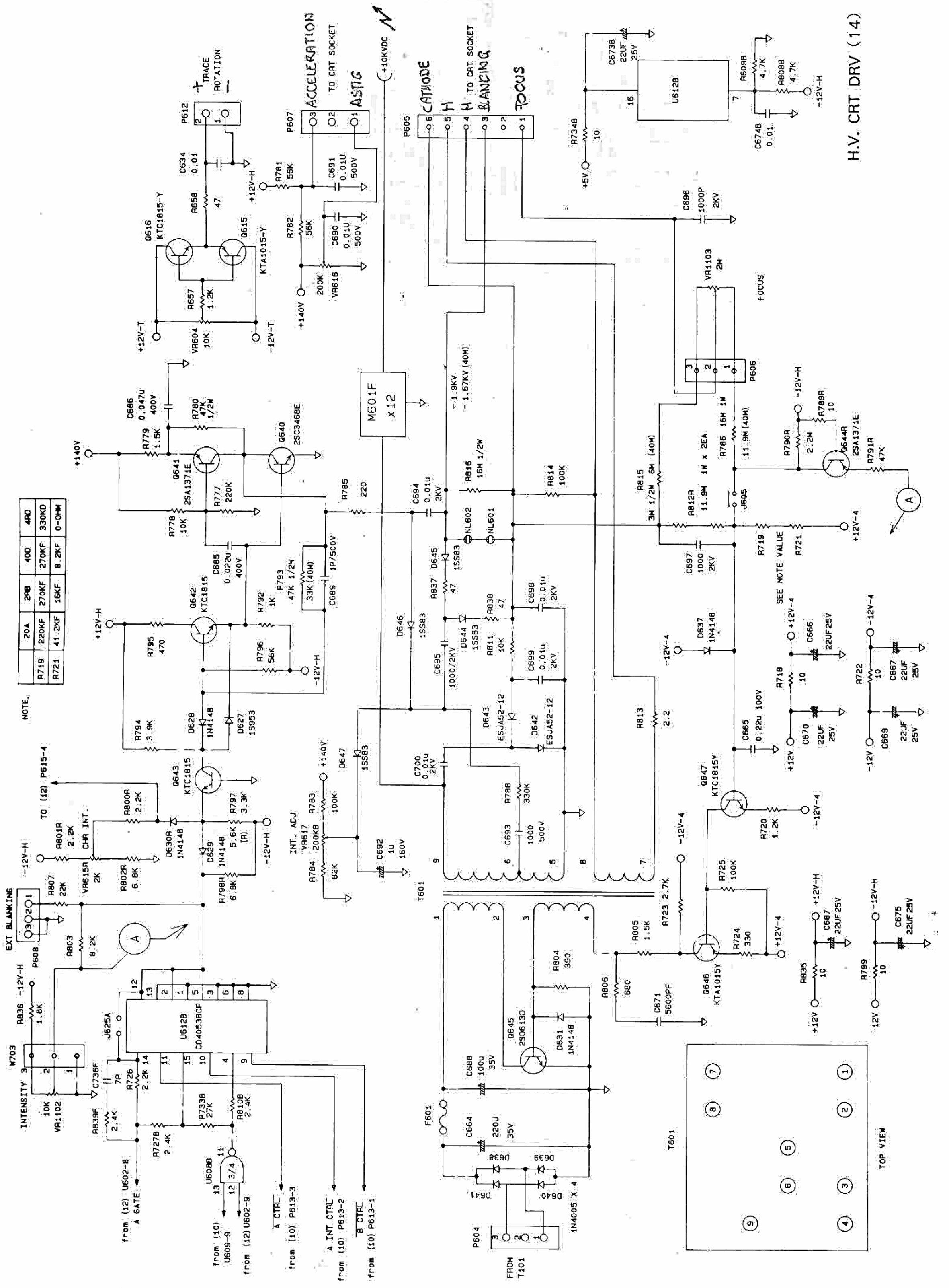

A B TIMING C.K.T (11)
from (10) Q623-6
S604B B TIME/DIV
20uS
10uS
5uS
2uS
1uS
0.5uS
0.2uS
-12V-T
R648B 3.3M 1/2W
R655B 1.65M
R654B 825K
R653B 330K
R652B 165K
R651B 82.5K
R650B 33K
from (9) Q610-B
C622 820PF
C621 2.2u
C620 0.047u
CHOP
ALT
R649 10
C626 22UF25V
-12V
to (10) D605-K
to (9) D609-K
X-Y CTRL to (6) P401
W702
C733 0.01u
C732 0.01u
from (9) R696
C623 0.01u
C625 1u
C624 560P
S603 A TIME/DIV
0.2S
0.1S
50mS
20mS
10mS
5mS
2mS
1mS
0.5mS
0.2mS
0.1mS
50uS
20uS
10uS
5uS
2uS
1uS
0.5uS
0.2uS
X-Y
FROM (9) Q612-6
R642 3.3M 1/2W
R639 1.65M
R641 825K
R638 330K
R640 165K
R643 82.5K
R645 33K
R644 2.2M
R628 680
VR603 2KB
SWP. VARIABLE
C619 22UF 25V
R646 560
-12V-1
R630 8.2K
VR606 20KB
5mS ADJ
R637 1K
Q607 KTA1015-Y
R636 1K
Q608 KTC1815-Y
R635 10K
U605
TO (12) U601-12
+5V-2
R647R 4.7K
W607R
to (12) W608R
+5V
R631 10
C618 0.01

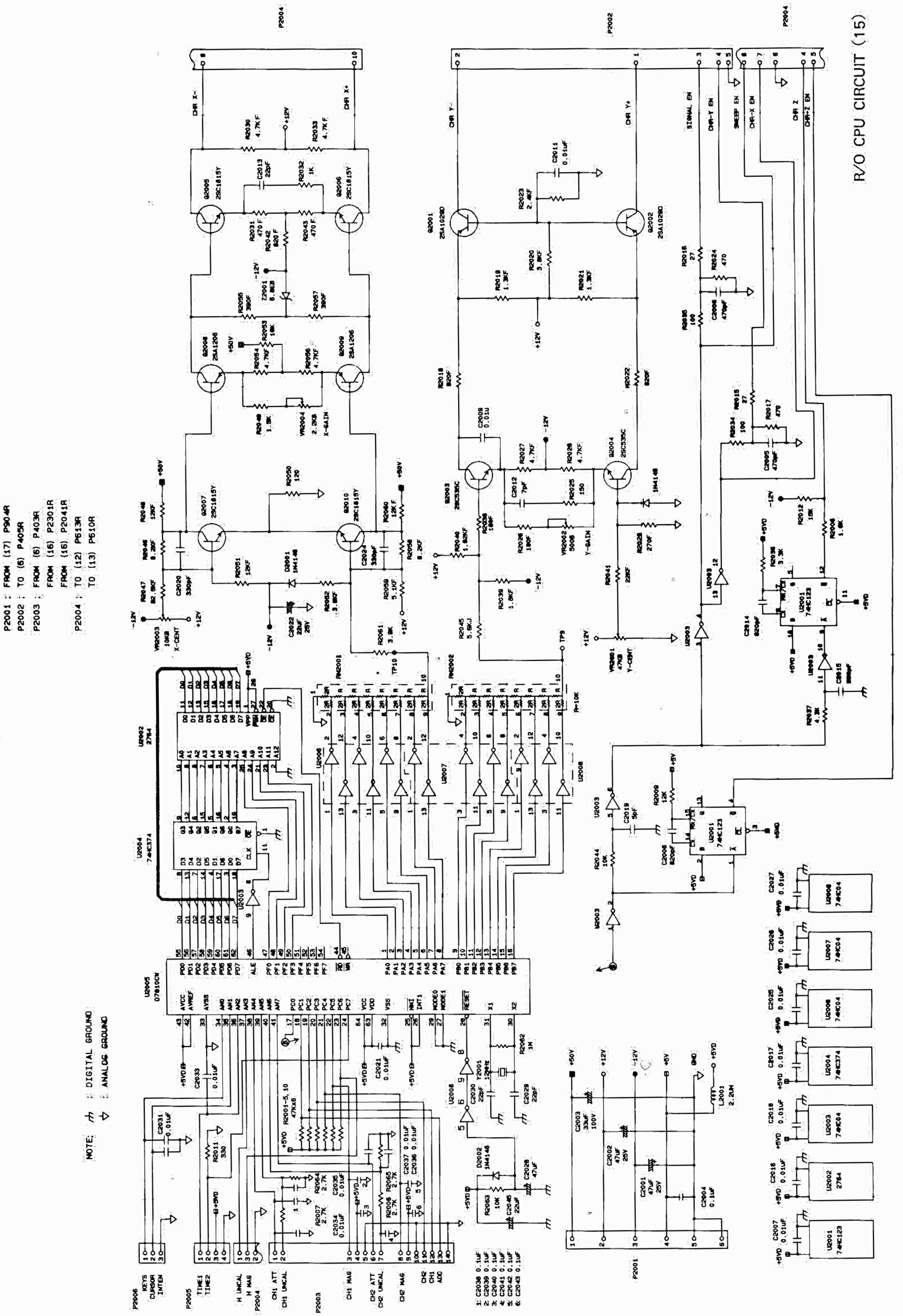
CHOP PULSE GEN (12)

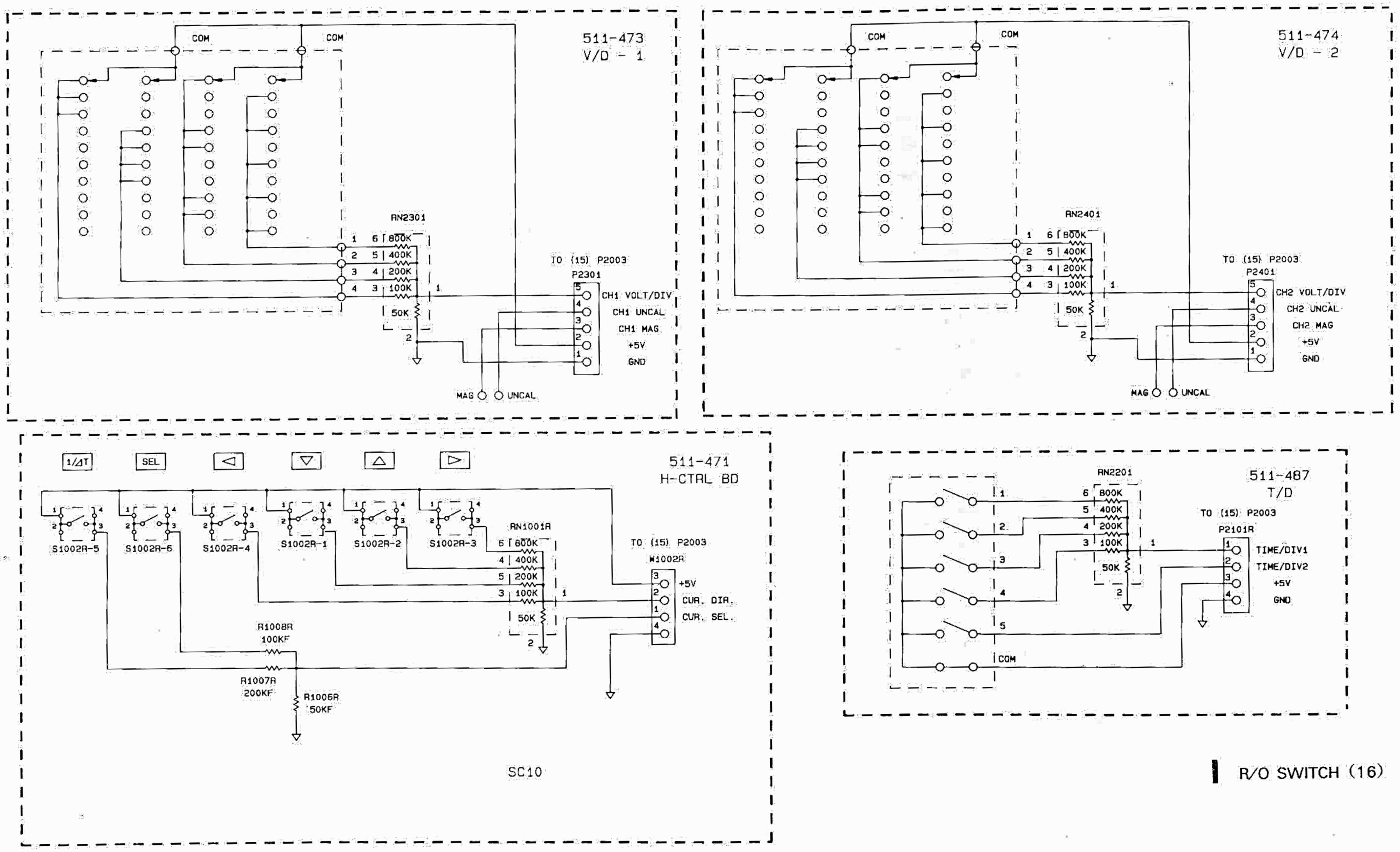


HORIZONTAL MAIN AMP (13)




H.V. CRT DRV (14)
NOTE.
SEE NOTE VALUE
TO CRT SOCKET
ACCELERATION
ASTIG
CATHODE
BLANKING
FOCUS
TRACE ROTATION
+10KVDC
M601F x12
EXT BLANKING
INTENSITY
INT. ADJ
CHR INT.
U612B CD4053BCP
T601
TOP VIEW
FROM T101
1N4005 X 4
from (12) U602-8 A GATE
from (10) U609-9
from (12) U602-9
A CTRL from (10) P613-3
A INT CTRL from (10) P613-2
B CTRL from (10) P613-1
TO (12) P615-4


R/O CPU CIRCUIT (15)
P2001 : FROM (17) P904R
P2002 : TO (5) P405R
P2003 : FROM (6) P403R
FROM (16) P2301R
FROM (16) P2041R
P2004 : TO (12) P613R
TO (13) P610R
NOTE; : DIGITAL GROUND
: ANALOG GROUND
U2005 D7810CW
U2002 2764
U2004 74HC374
U2001 74HC123
U2003 74HC04
U2006 74HC04
U2007 74HC04
U2008 74HC04
CHR X-
CHR X+
CHR Y-
CHR Y+
CHR Z
SIGNAL EN
CHR-Y EN
SWEEP EN
CHR-X EN
CHR-Z EN
X-GAIN
Y-GAIN
X-CENT
Y-CENT
KEYS
CURSOR
INTEN
TIME1
TIME2
H UNCAL
H MAG
CH1 ATT
CH1 UNCAL
CH1 MAG
CH2 ATT
CH2 UNCAL
CH2 MAG
CH2
CH1
ADD



R/O SWITCH (16)

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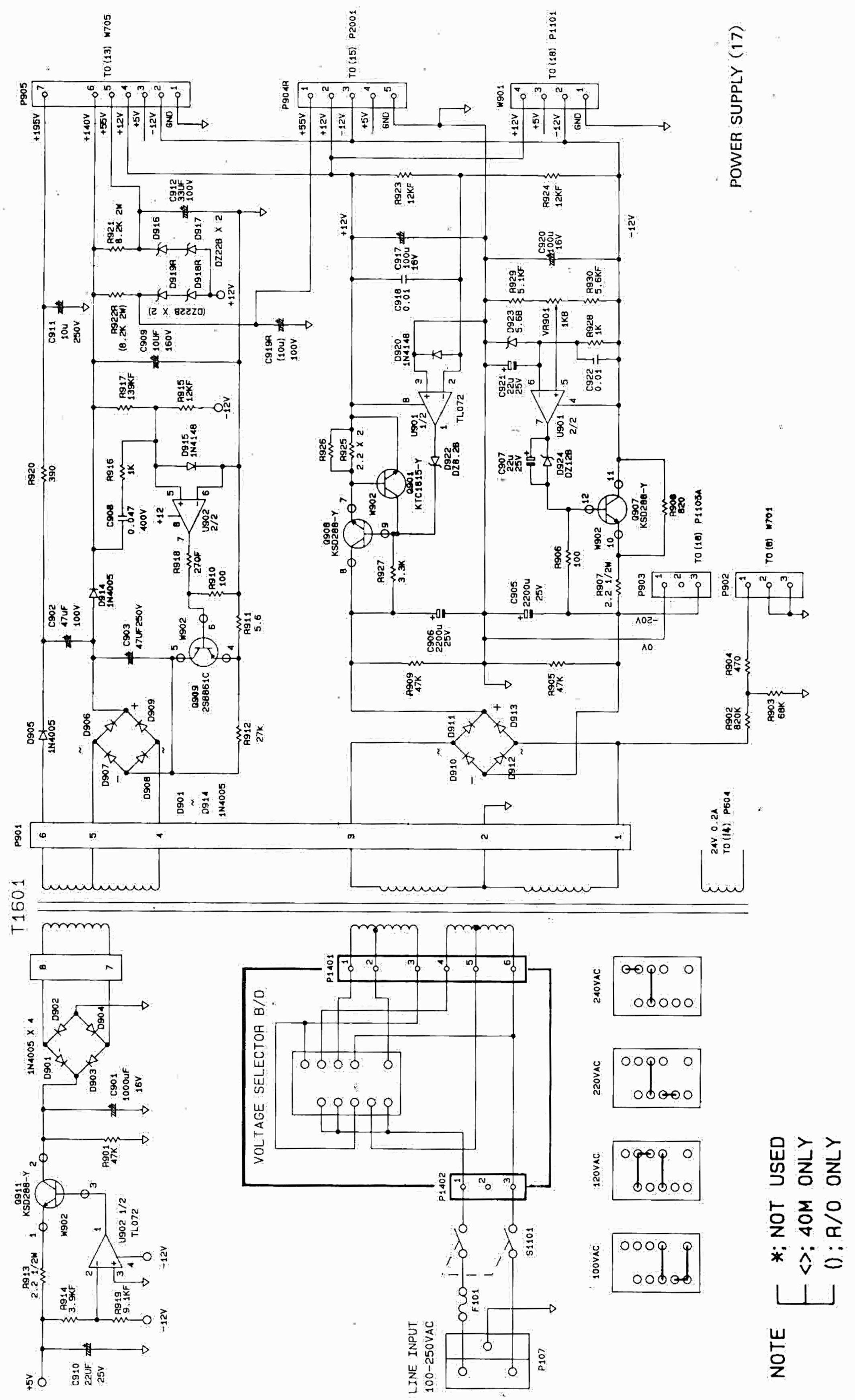
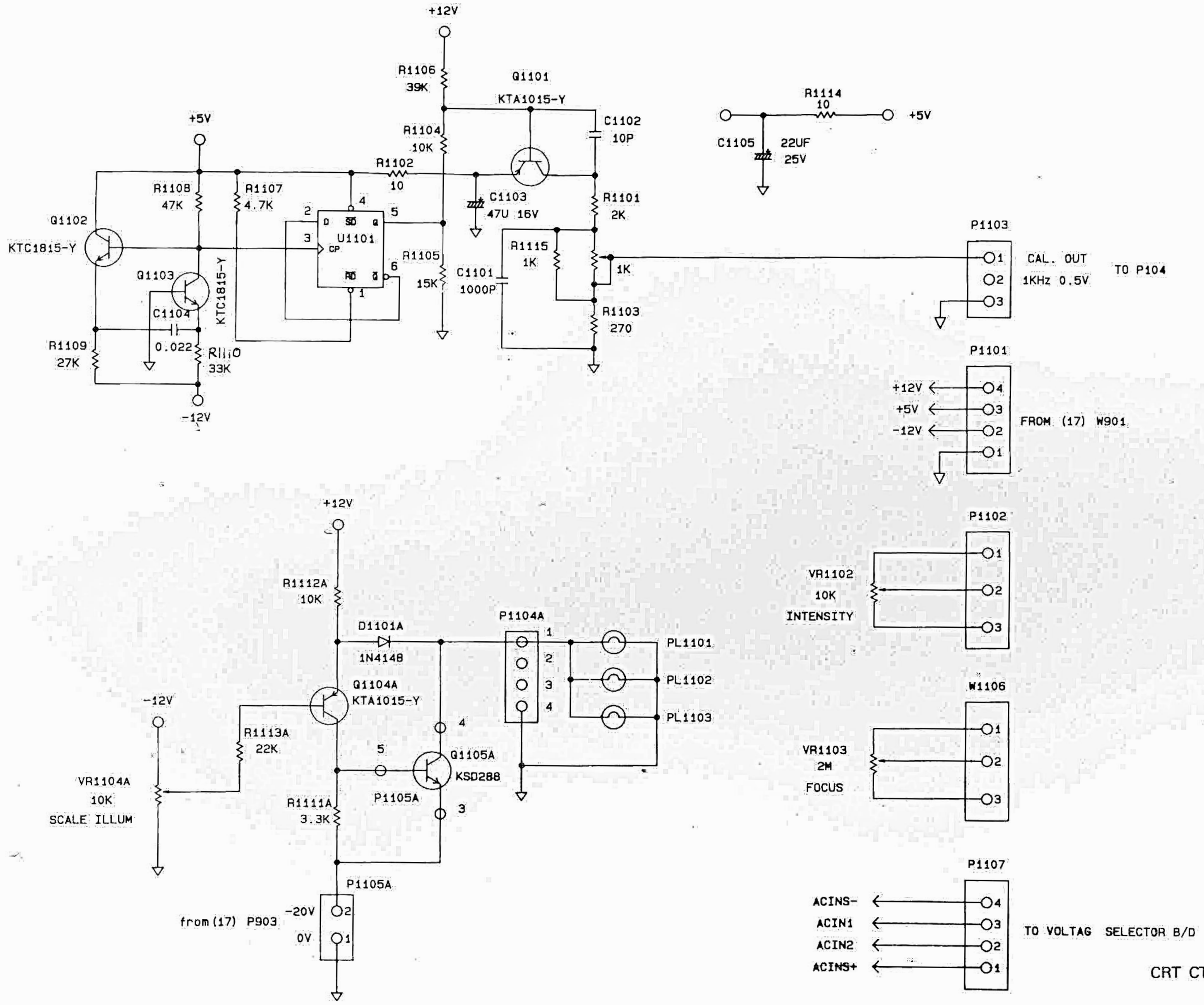

POWER SUPPLY (17)
T1601
VOLTAGE SELECTOR B/D
LINE INPUT
100-250VAC
240VAC
220VAC
120VAC
100VAC
NOTE
*; NOT USED
<>; 40M ONLY
(); R/O ONLY


+12V
R1106
39K
Q1101
KTA1015-Y
C1102
10P
R1114
10
+5V
C1105
22UF
25V
R1104
10K
R1102
10
C1103
47U 16V
R1101
2K
R1108
47K
R1107
4.7K
Q1102
KTC1815-Y
U1101
R1105
15K
C1101
1000P
R1115
1K
1K
P1103
CAL. OUT
1KHz 0.5V
TO P104
Q1103
KTC1815-Y
C1104
0.022
R1109
27K
R1110
33K
R1103
270
-12V
P1101
+12V
+5V
-12V
FROM (17) W901
P1102
VR1102
10K
INTENSITY
R1112A
10K
D1101A
1N4148
P1104A
PL1101
PL1102
PL1103
Q1104A
KTA1015-Y
R1113A
22K
Q1105A
KSD288
W1106
VR1103
2M
FOCUS
VR1104A
10K
SCALE ILLUM
P1105A
R1111A
3.3K
P1107
ACINS-
ACIN1
ACIN2
ACINS+
TO VOLTAG SELECTOR B/D
from (17) P903
-20V
0V

CRT CTRL. (18)